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Figure 1

Figure 2

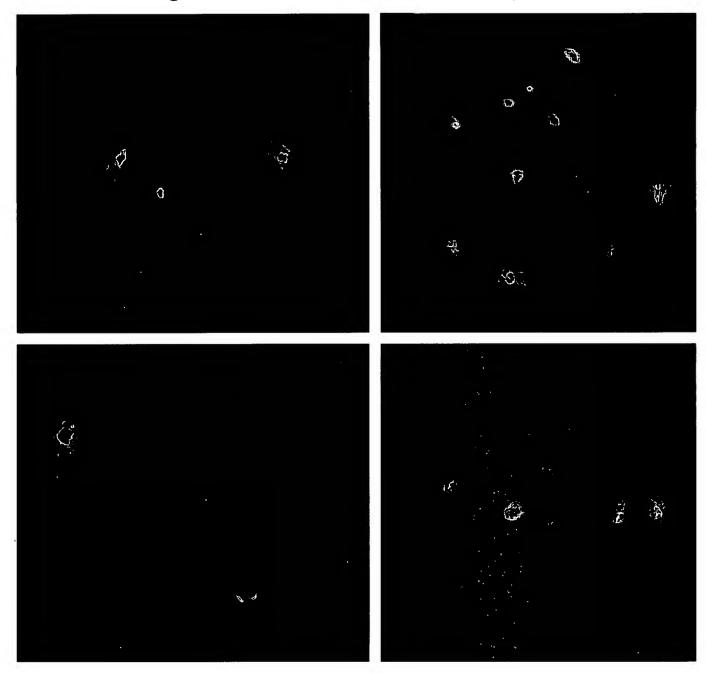


Figure 3

Figure 4

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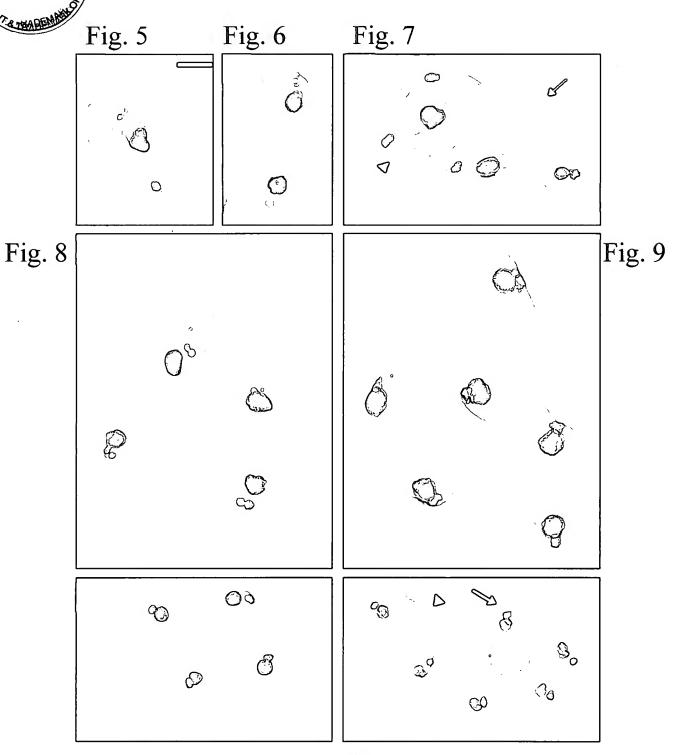


Fig. 10

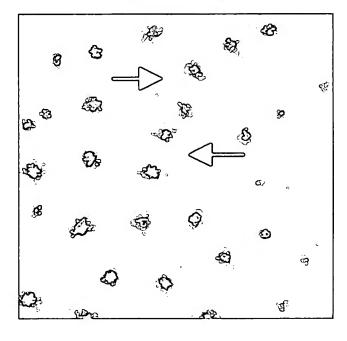
Fig. 11

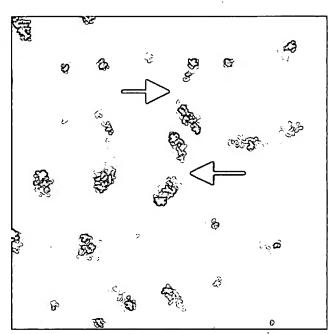


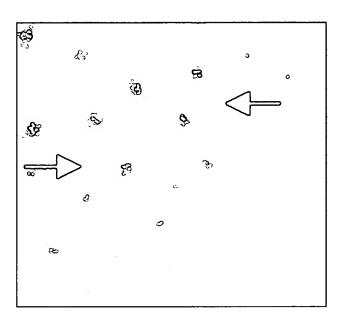
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Figure 12

Figure 13







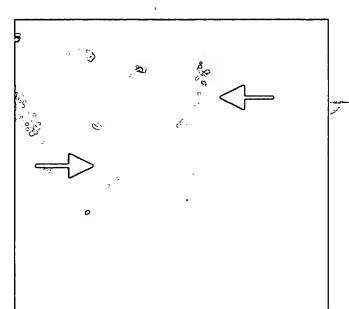


Figure 14

Figure 15



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Figure 16

SEQ ID NO:1 KIF18A cDNA GenBank Accession No. AL136819

1	atgtctgtca	ctgaggaaga	cctqtqccac	catatgaaag	tagtagttcg	tqtacqtccq
				cataaagtgg		
				gtcagttttt		
				gatcttaaat		
				gaacacacta		
				gcctatggtg		
				ggagtgatgt		
				aaaatatgta		
				ttagtaaatt		
				ggacttactt		
				aacaaaaaca		
661	atgaatgcca	catcttctcg	ttctcatgct	gttttccaaa	tttacttgcg	acaacaagac
721	aaaacagcaa	gtatcaatca	aaatgtccgt	attgccaaga	tgtcactcat	tgacctggca
				aaggggaccc		
				gtcatcaatg		
				aagcttactc		
961	ggaggaaact	gtcaaactat	aatgatagct	gctgttagtc	cttcctctgt	attctacgat
1021	gacacatata	acactcttaa	gtatgctaac	cgggcaaagg	acattaaatc	ttctttgaag
1081	agcaatgttc	ttaatgtcaa	taatcatata	actcaatatg	taaagatctg	taatgagcag
1141	aaggcagaga	ttttattgtt	aaaagaaaaa	ctaaaagcct	atgaagaaca	gaaagccttc
1201	actaatgaaa	atgaccaagc	aaagttaatg	atttcaaacc	ctcaggaaaa	agaaatcgaa
1261	aggtttcaag	aaatcctgaa	ctgcttgttc	cagaatcgag	aagaaattag	acaagaatat
1321	ctgaagttgg	aaatgttact	taaagaaaat	gaacttaaat	cattctacca	acaacagtgc
1381	cataaacaaa	tagaaatgat	gtgttctgaa	gacaaagtag	aaaaggccac	tggaaaacga
				cgctcctacc		
				tggctccatc		
1561	ctcttaagtc	aaaacggtca	tattccaaag	gaactcaaga	aagatcttca	ttgtcaccat
				caaattagac		
1681	cttcaggaac	agcaacacag	gcagactgaa	gcagtattga	atgctttact	tccaacccta
				ggcctgtcaa		
1801	ttcaaagaga	tcgaacattt	ggtagagagg	aaaaagtgg	tagtttgggc	tgaccaaact
1861	gccgaacaac	caaagcaaaa	cgatctacca	gggatttctg	ttcttatgac	ctttccacaa
1921	cttggaccag	ttcagcctat	tccttgttgc	tcatcttcag	gtggaactaa	tctggttaag
1981	attcctacag	aaaaaagaac	tcggagaaaa	ctaatgccat	ctcccttgaa	aggacagcat
				cagctcaatg		
2101	cagcctattg	tatatacacc	agaagactgt	agaaaagctt	ttcaaaatcc	gtctacagta
2161	accttaatga	aaccatcatc	atttactaca	agttttcagg	ctatcagctc	aaacataaac
2221	agtgataatt	gtctgaaaat	gttgtgtgaa	gtagctatcc	ctcataatag	aagaaaagaa
2281	tgtggacagg	aggacttgga	ctctacattt	actatatgtg	aagacatcaa	gagctcgaag
2341	tgtaaattac	ccgaacaaga	atcactacca	aatgataaca	aagacatttt	acaacggctt
2401	gateettett	cattctcaac	taagcattct	atgcctgtac	caagcatggt	gccatcctac
				cggaaattaa		
				gccaaacgtg		
				atggaacata		
2041	aacccaayca	tyyttayaaa	acceggaaga	aatatttcaa	aaygaaatct	aagataa



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Figure 17

SEQ ID NO:2 Amino acid sequence of KIF18A GenBank Accession No. AL136819

MSVTEEDLCHHMKVVVRVRPENTKEKAAGFHKVVHVVDKHILVFDPKQEEVSF FHGKKTTNQNVIKKQNKDLKFVFDAVFDETSTQSEVFEHTTKPILRSFLNGYNCT VLAYGATGAGKTHTMLGSADEPGVMYLTMLHLYKCMDEIKEEKICSTAVSYLE VYNEQIRDLLVNSGPLAVREDTQKGVVVHGLTLHQPKSSEEILHLLDNGNKNRT QHPTDMNATSSRSHAVFQIYLRQQDKTASINQNVRIAKMSLIDLAGSERASTSGA KGTRFVEGTNINRSLLALGNVINALADSKRKNQHIPYRNSKLTRLLKDSLGGNCQ TIMIAAVSPSSVFYDDTYNTLKYANRAKDIKSSLKSNVLNVNNHITQYVKICNEQ KAEILLLKEKLKAYEEQKAFTNENDQAKLMISNPQEKEIERFQEILNCLFQNREEI RQEYLKLEMLLKENELKSFYQQQCHKQIEMMCSEDKVEKATGKRDHRLAMLKT RRSYLEKRREEELKQFDENTNWLHRVEKEMGLLSQNGHIPKELKKDLHCHHLHL QNKDLKAQIRHMMDLACLQEQQHRQTEAVLNALLPTLRKQYCTLKEAGLSNAA FESDFKEIEHLVERKKVVVWADQTAEQPKQNDLPGISVLMTFPQLGPVQPIPCCS SSGGTNLVKIPTEKRTRRKLMPSPLKGQHTLKSPPSQSVQLNDSLSKELQPIVYTP EDCRKAFQNPSTVTLMKPSSFTTSFQAISSNINSDNCLKMLCEVAIPHNRRKECGO EDLDSTFTICEDIKSSKCKLPEQESLPNDNKDILQRLDPSSFSTKHSMPVPSMVPSY MAMTTAAKRKRKLTSSTSNSSLTADVNSGFAKRVRQDNSSEKHLQENKPTMEH KRNICKINPSMVRKFGRNISKGNLR



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Figure 18

SEQ ID NO:3 Amino acid sequence of KLP67A GenBank Accession No. NM_079268

MPSEQHTNIKVAVRVRPYNVRELEQKQRSIIKVMDRSALLFDPDEEDDEFFFQGA KQPYRDITKRMNKKLTMEFDRVFDIDNSNQDLFEECTAPLVDAVLNGYNCSVFV YGATGAGKTFTMLGSEAHPGLTYLTMQDLFDKIQAQSDVRKFDVGVSYLEVYN EHVMNLLTKSGPLKLREDNNGVVVSGLCLTPIYSAEELLRMLMLGNSHRTQHPT DANAESSRSHAIFQVHIRITERKTDTKRTVKLSMIDLAGSERAASTKGIGVRFKEG ASINKSLLALGNCINKLADGLKHIPYRDSNLTRILKDSLGGNCRTLMVANVSMSS LTYEDTYNTLKYASRAKKIRTTLKQNVLKSKMPTEFYVKKIDEVVAENERLKER NKALEAKATQLERAGNSGFDPLELKTWYSKIDAVYAAARQLQEHVLGMRSKIK NINYRQTLKKELEEFRKLMCVDQRVCQEDFRRFANYMSTLTSQMEKYKEELPS WLSKMEIAYODLESLKREVNKSKAYQILIVYVKYKDLELQLTKQNIFNNHVNAI NQELVENLDLMRKSFRTACEVLNQTYDRLEDGQKLTPEIEAVFERLLRKMRFAD SEANTKMAEMNPLAVPVALRSSAQEEEEPTCSLTASAKKRQRQAAQSDDDLHLS VTKPRTVQQRLVSDLISDQNVRGGNEKIKKALLKSNHFTAQGLQRTLAAASLAK ENVKYNANYVRKSPRALMAKALAGTSTLARKPLGSASKEPPLVKFNRAASFRLK K

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Figure 19

SEQ ID NO:4 cDNA of KLP67A GenBank Accession No. NM_079268

1 atgccttcgg aacagcatac gaatataaaa gtggcggttc gcgtacggcc gtataatgtc 61 cgtgaattgg agcaaaaaca gcggagtatt atcaaggtca tggatcgttc ggcactgctg 121 ttcgatcccg acgaggagga cgatgagttc ttctttcagg gcgccaagca accgtaccgc 181 gacatcacca ageggatgaa caaaaagttg accatggaat tegacagggt attegatata 241 gacaattcca accaggatct gttcgaggag tgcacggcgc cgctggtcga cgcggtgtta 301 aatggataca actgctcggt atttgtatat ggagccactg gcgccggaaa aacattcaca 361 atgetgggea gegaggetea teegggtetg acetatetta ceatgeaaga tetettegat 421 aagatccaag cgcagagcga cgtgcgcaag ttcgatgtgg gggtatccta tctagaggtg 481 tacaacgaac atgtgatgaa tctgctaact aaatcgggcc ctttaaaact tcgcgaggac 541 aacaatggcg tggtggtcag tggtctttgt ctcacgccca tctacagtgc cgaggagctg 601 ctaagaatgc tgatgctggg caactctcat cgcactcagc accccacaga tgccaatgca 661 gagagttcca ggtcacatgc catcttccag gtgcacatta ggatcacgga gcgcaagacc 721 gacaccaaaa gaacggtcaa actatccatg atcgatctgg cgggcagtga gagggcggcc 781 agtacgaaag gcattggagt gcgattcaag gaaggcgcca gcatcaacaa aagtctctta 841 gctttgggaa attgcataaa caagctagcc gacggcttaa agcacatccc gtaccgcgac 901 tegaacetga caegeateet gaaggaeteg ttgggeggaa attgtegeae attgatggtg 961 gccaatgtct cgatgagctc actgacctat gaagatacct acaacaccct taagtacgct 1021 agccgagcta agaagatacg cacgactetg aaacagaatg teetcaagte caagatgcca 1081 accgagttct atgtgaagaa gatcgacgag gtggtagccg agaacgagcg actcaaagag 1141 cgcaacaagg cgctggaggc caaggccact cagttggagc gcgccggcaa tagtggattc 1201 gatccgctgg agettaagac gtggtacagc aagatagacg ctgtatatgc ggccgcccgg 1261 cagetteagg ageaegteet tggtatgegt ageaagatea agaacateaa etaeeggeag 1321 acactgaaaa aagaactgga ggagttcagg aagctgatgt gtgtcgacca gcgagtgtgc 1381 caggaggaet teegtegett tgegaactae atgageaeae tgaceageea gatggagaag 1441 tacaaggagg agttgcccag ctggctgagt aaaatggaga ttgcctacca ggatctagaa 1501 agtctaaagc gagaggttaa caaatcaaag gcctaccaga tactcattgt atacgttaag 1561 tacaaggate tegagetgea getgaceaag eagaatatet ttaacaatea egtgaaegea 1621 attaaccagg agctggttga gaacttggat ctgatgcgaa agtccttccg aacagcctgc 1681 gaagtgetea accagaegta egategeete gaggatggte aaaagetgae geeggaaatt 1741 gaggcggtct tcgaaaggtt gctgcgaaag atgcggttcg ccgattccga ggccaatacc 1801 aaaatggccg agatgaatcc gttggcggtg cctgtggctc tgcgcagcag cgcccaggag 1861 gaagaagage ceacatgeag eeteaeggee agegeeaaaa agegacaaag geaagegget 1921 cagagegaeg aegatetgea tittgageatg gaggaetttg atagecagga cacegaatea 1981 gattccgagg agctgcacag gacgtttaag aggccacgaa atctaaacga aacgcaggtc 2041 ctgggtccct gcagcagtag ttctagcagc agtacttcta gcagcagtag cgcaaggaag 2101 geacteaegg egaeggtgae eaageegega acegteeaae agegaetggt eagegatetg 2161 atatecgate agaatgtgeg eggtggeaat gaaaagatea agaaggetet acteaagteg 2221 aatcacttta cggcgcaagg acttcagaga acgttggcgg ctgcttctct ggccaaggaa 2281 aacgtaaaat acaacgccaa ctatgtgcgc aagagtccac gagcgctaat ggccaaagcc 2341 cttgcaggca cctcgacgct tgcgagaaaa ccgctgggat cggccagtaa ggagccgcct 2401 ttggtcaaat tcaatcgtgc tgcttcgttc cgcctgaaga agtag



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Figure 20

KLP61F dsRNA (SEQ ID NO:13)

gacgggcaca gggaagaccc acaccatggt gggcaacgag actgccgaac
tgaaatcctc ctgggaagat gactctgaca ttggcatcat accgcgcgct ctgagtcacc
ttttcgatga gctgcgcatg atggaggtgg agtacactat gcgcatttcc tacttggaac
tgtacaatga ggagctgtgc gatctactgt ccaccgatga caccaccaag atacgcattt
tcgatgacag caccaagaag ggatcggtga ttatccaggg cctggaggag ataccagtgc
acagcaagga tgatgtgtac aagctgctgg agaagggaaa ggagcgtcgc aaaacagcca
ctacgctgat gaatgcacag tcctcacgct cccacactgt attttctata gttgtgcaca
tcagggagaa tggcatcgaa ggagaggaca tgctgaaaat cggtaaactg aatctggtgg
atctggcggg cagtgaaaat gtttccaagg ctgggaatga aaaggga



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Figure 21

KLP67A dsRNA (SEQ ID NO:14)

gtacggc cgtataatgt ccgtgaattg gagcaaaaac agcggagtat tatcaaggtc atggatcgtt cggcactgct gttcgatccc gacgaggagg acgatgagtt cttctttcag ggcgccaagc aaccgtaccg cgacatcacc aagcggatga acaaaaagtt gaccatggaa ttcgacaggg tattcgatat agacaattcc aaccaggatc tgttcgagga gtgcacggcg ccgctggtcg acgcggtgtt aaatggatac aactgctcgg tatttgtata tggagccact ggcgccggaa aaacattcac aatgctgggc agcgaggctc atccgggtct gacctatctt accatgcaag atctcttcga taagatccaa gcgcagagcg acgtgcgcaa gttcgatgt ggggtatcct atctagaggt gtacaacgaa catgtgatga atctgctaac taaatcgggc cctttaaaac ttcgcgagga caacaatggc gtggtggtca gtgg